



TOWN OF VERNON

55 WEST MAIN STREET, VERNON, CT 06066

Tel: (860) 870-3633

Fax: (860) 870-3589

**OFFICE OF THE
BUILDING DEPARTMENT**

TO ALL POOL PERMIT APPLICANTS:

POOLS, SPAS, AND HOT TUBS require *Building, Electrical, and Zoning* permits to ensure the work is done properly and is approved for the proposed location. Additional permits, inspections, and requirements are needed for decks.

The following is a list of inspections that **MUST** to be performed. Please call the Building Department's main number (860) 870-3633 at least **48 hours** in advance to schedule all inspections.

- **TRENCH & BONDING**-Electrical trench depth verification and bonding of pool and metal appurtenances including metal reinforcing for gunite pools.
- **FINAL ELECTRICAL**-Location of equipment and GFCI protection. Convenience outlet provided.
- **FINAL**-Swimming pool access protection must be provided before pool can be used.

The requirements for barriers, fences, gates, latches and the means of entry into a pool area are designed to provide protection against accidental drowning, particularly for small children.

Please be advised that removable ladders and 'tilt-up' locking ladders do not meet the requirements of the Connecticut State Building Code for protection of the access to above ground swimming pools.

Pool access is to be protected in accordance with the Connecticut State Building Code (see attached pool guideline packet) & a pool alarm is required per Connecticut General Statute (CGS 29-265a).

Remember Nothing Can Replace Direct Supervision by An Adult and Pool Safety is The Responsibility of The Pool's Owner.

Thank you for your cooperation.



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POOL CHECKLIST

- If well or septic is on the property- Health Department approval must be obtained in writing.

ATTENTION!!!

No applications will be accepted by the Building Department until this step is completed

- Completed Building Permit Application
- Completed Electrical Permit Application
- Completed Zoning Permit Application with:
 - Plot plan showing where the pool will be located with dimensions and distances to property lines (*NOTE: In-Ground Pools may require a location survey by a licensed surveyor or engineer*)
- Completed Swimming Pool Agreement form
- Completed Swimming Pool Alarm Agreement form
- Specifications on the following:
 - Pool to be installed
 - Purchased water motion pool alarm
 - Ladder to be installed (*Above-Ground Pool Only*)



TOWN OF VERNON – BUILDING DEPARTMENT

55 West Main Street • Vernon, CT 06066

Phone: (860) 870-3633 • Fax: (860) 870-3589 • Website: www.vernon-ct.gov • Building@vernon-ct.gov

PERMIT APPLICATION

Permit Number _____

ADDRESS OF WORK LOCATION: _____

TYPE OF PERMIT: ☐ COMMERCIAL ☐ RESIDENTIAL/TWO-FAMILY ☐ MULTI FAMILY (3 OR MORE)

☒ **BUILDING**

- ☐ New Construction
- ☐ Addition
- ☐ Renovation
- ☐ Accessory Structure
- ☐ Deck
- ☐ Demolition
- ☐ Roofing (# Squares) _____
- ☒ Pool A/G _____ I/G _____
- ☐ Siding
- ☐ Stoves
- ☐ Other _____

☐ **ELECTRICAL**

- ☐ Service Change
- ☐ CRS# _____
- ☐ New Construction
- ☐ Addition
- ☐ Renovation
- ☐ Pool Wiring
- ☐ Low Voltage
- ☐ Solar
- ☐ Other _____

☐ **PLUMBING**

- ☐ New Construction
- ☐ Addition
- ☐ Renovation
- ☐ Fire Suppression
- ☐ Water Heater
- ☐ Fuel Tank
- ☐ Other _____

☐ **HVAC**

- ☐ New Construction
- ☐ Addition
- ☐ Renovation
- ☐ Central Air
- ☐ Replace/Repair
- ☐ Boiler/Furnace
- ☐ Other _____

Will there be any excavation, i.e. foundation, trenching, etc.? ☐ Yes ☐ No

☐ Public Water

☐ Sewer

☐ Well

☐ Septic

DESCRIPTION OF WORK (must be completed for all permits) _____

Fair Market Value (Labor + Material) \$ _____ Fees: \$ _____ (Permit) \$ _____ (Z) \$ _____ (PR)
\$ _____ (CO/CA) \$ _____ (DF)

Property Owner: _____

Mailing Address: _____ Town: _____ State: _____ Zip: _____

E-Mail: _____ Phone Number: _____

Applicant: _____ Lic.# _____ Type: _____ Exp: _____

Mailing Address: _____ Town: _____ State: _____ Zip: _____

E-Mail: _____ Phone Number: _____

Certification: I hereby certify that: ☐ I am the owner of record of the named property, or: ☐ that the proposed work is authorized by the owner of record and/or I have been authorized to make this application as an authorized agent, and we agree to conform to all applicable codes, laws, regulations and ordinances. All information contained within is true and accurate to the best of my knowledge and belief. No work shall start until the applicant has received the signed approved permit.

- ☐ Contractor
- ☐ Applicant
- ☐ Owner

Signature of Owner/Authorized Agent _____

Printed Name of Signatory _____

Date _____



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☐ PLUMBING

- ☐ New Construction
- ☐ Addition
- ☐ Renovation
- ☐ Fire Suppression
- ☐ Water Heater
- ☐ Fuel Tank
- ☐ Other _____

☐ HVAC

- ☐ New Construction
- ☐ Addition
- ☐ Renovation
- ☐ Central Air
- ☐ Replace/Repair
- ☐ Boiler/Furnace
- ☐ Other _____

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☐ Public Water

☐ Sewer

☐ Well

☐ Septic

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\$ _____ (CO/CA) \$ _____ (DF)

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☐ Contractor

☐ Applicant

☐ Owner

Signature of Owner/Authorized Agent

Printed Name of Signatory

Date

ZONING PERMIT APPLICATION INSTRUCTIONS

An original of the following information must be submitted. **This application is not complete and will not be processed until all of the required materials are submitted.**

- a. **The FEE for this application shall be \$25.00.**
- b. **Application form** to be completed by applicant.
- c. **Plot Plan**
 - **All existing and any new proposed buildings, additions and structures, and their dimensions, must be shown, including decks, patios, driveways, sidewalks, pools, garages and sheds.**
 - **Any new proposed buildings, additions and structures shall show the distance to the property lines from said structure (front, rear and side yards).**
 - **Size and dimensions of lot and existing proposed lot coverage.**
 - **The plot plan must be based on a survey prepared by a licensed Surveyor, Civil Engineer or Architect. For small projects (such as decks, patios, above ground pools, sheds) the blank plot plan attached hereto may be acceptable in lieu of a survey (see Page 3).**

NOTE: An As-Built Survey and/or Foundation Location Survey May Be Required depending on scope of project.

- d. **Scaled Floor Plans** whether new construction, alteration and/or addition.
- e. **Elevation Drawings** showing building height based on the vertical distance of a building measured from the average elevation of the finished grade adjacent to the to the exterior wall of the building to the highest point of the roof. When the finished ground level slopes away from an exterior wall, the distance will be calculated bases on the lowest points within the area between the building and the lot line or, when the lot line is more than ten feet from the building, between the building and a point ten feet from the building. (May be submitted as part of the Building Permit Application)
- f. If **Variances** were granted for the property, buildings and/or additions, submit a copy of the recorded variance with the Town Clerks stamp.

FEE: \$25.00

**TOWN OF VERNON
ZONING PERMIT**

ZP # _____

This permit is hereby applied for in accordance with the requirements of the Vernon Zoning Regulations and other land use regulations as applicable, per plans attached.

PROPERTY ADDRESS _____

ZONING DISTRICT _____
(FOR ZONING USE ONLY)

PROPERTY OWNER _____

PHONE # _____

PROPERTY OWNER ADDRESS _____

Type of Permit ☐ New Construction ☐ Swimming Pool ☐ Change of Use ☐ Addition ☐ Solar
 ☐ Sign ☐ Excavation/fill ☐ Accessory Building/Structure ☐ Other

Description of activity for which permit is sought:

Property Use: ☐ Single Family ☐ Commercial/Business ☐ Mixed Uses ☐ Non-Profit
 ☐ Multi Family ☐ Industrial/Mfg. ☐ 2-3 family ☐ Other

Utilities: ☐ Public Water ☐ Well ☐ Public Sewer ☐ Septic

This zoning permit is based on the plot plan and information submitted by applicant. This permit is subject to all conditions (if any) of approval, attached by any board/commission and/or department of jurisdiction. Falsification by omission or misrepresentation, or failure to comply with the conditions of approval or record, shall constitute a violation of the Vernon Zoning Regulations. Applicant certifies that property owner approves this application.

AN AS-BUILT SURVEY AND/OR FOUNDATION LOCATION SURVEY MAY BE REQUIRED.

APPLICANT(S) SIGNATURE _____ Date _____

PRINTED NAME _____

ADDRESS _____

TELEPHONE NUMBERS _____

APPLICANT - DO NOT WRITE BELOW THIS LINE

Restrictions/Conditions:

Prior Approval(s): ☐ Site plan ☐ Special Permit ☐ Re-subdivision ☐ Subdivision ☐ Flood Plain

☐ Substantial Improvement ☐ Wetlands ☐ Flood Hazard Area ☐ Zone Change ☐ Other

ZBA Variance(s) _____ Granted on: _____

Permit Issuer

Andy Marchese, Zoning Enforcement Officer

Date

CC: Applicant _____

PLOT PLAN

Please include all structures and dimensions

NAME _____

Date _____

ADDRESS _____

Tel. _____

PERCENTAGE OF LOT COVERAGE _____

(FOR ZONING USE ONLY)

Lot coverage includes all structures and paved surfaces

**DRAW IN ALL BUILDINGS, ADDITIONS, STRUCTURES, DECKS, PATIOS,
DRIVEWAYS, SIDEWALKS, POOLS, GARAGES, SHEDS AND THEIR DIMENSIONS**

**DRAW IN NEW STRUCTURE WITH DIMENSIONS
and DISTANCES TO ALL PROPERTY LINES**

DRAW IN LOCATION OF WELL AND SEPTIC IF APPLICABLE

Rear Yard

Side Yard

HOUSE

Side Yard

Front Yard

**PROPERTY SETBACKS VARY – MOST RESIDENTIAL LOTS HAVE A
SETBACK OF 30' FROM FRONT, 20' FROM REAR & 10' FROM SIDE
CORNER LOTS MUST BE DISCUSSED WITH ZONING
TO VERIFY SETBACKS**



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Swimming Pool Agreement

Pool installed by: _____ Owner _____ Contractor _____

Location (Address) of Pool: _____, Vernon, CT 06066

Property Owner's Name: _____

Applicant's Name: _____

_____ Above-Ground Pool _____ In-Ground Pool

In recognition of the serious safety issues associated with the ownership and maintenance of swimming pool, I hereby agree:

1. To comply with all applicable laws and regulations including: The latest adopted Connecticut State Building Code, which includes the following:
 - a. Safety barriers, fences, gates, etc.
 - b. Connecticut Amendments and errata.
 - c. The National Electrical Code – wiring, lights, etc.
 - d. The Model Energy Code – pool heaters, time clocks, pump.
 - e. Installing a water motion pool alarm per C.G.S. 29-265a
2. To provide and maintain a temporary barrier to prevent access to the pool while the pool, deck, permanent barrier, etc. is constructed.
3. To call the Vernon Building Department to schedule an Electrical Inspection prior to the backfilling of trenches containing electrical conduit and all related pool electrical work as per applicable sections of the National Electrical Code (i.e. pool bonding).
4. To call the Vernon Building Department to schedule a Final Inspection upon completion of all code requirements at 860-870-3633.
5. NOT TO USE my pool until a Certificate of Approval has been issued after ALL FINAL INSPECTION(S) have been completed.

I have read and understood the above code requirements:

Signature of Property Owner: _____ Date: _____

Signature of Contractor: _____ Date: _____



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Swimming Pool Alarm Agreement

Connecticut General Statute C.G.S. 29-265a as referenced in the Connecticut State Building Code:

- (a) As used in this section, "pool alarm" means a device which emits a sound of at least fifty decibels when a person or an object weighing fifteen pounds or more enters the water in a swimming pool.
- (b) No building permit shall be issued for the construction or substantial alteration of a swimming pool at a residence occupied by, or being built for, one or more families unless a pool alarm is installed with the swimming pool.

DATE: _____

As owner of the property located at _____, Vernon, CT 06066,

I agree to Purchase and install a swimming pool alarm in compliance with C.G.S. 29-265a.

Property owner Signature: _____

Property Owner Printed Name: _____



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POOL INFORMATIONAL HANDOUT

All information in this handout pertains to one and two family homes. It is based on the 2018 Connecticut Building Code and 2017 National Electrical Code. The Town of Vernon is offering this information to help homeowners and contractors understand typical code requirements. It is not intended to replace the code, or the builder's and homeowner's responsibility to follow the entire code. The Town of Vernon assumes no responsibility for any errors or omissions.



**Text and Illustrations
Section R326.6**

Swimming Pools

**The drawings contained in this brochure pertain to the
Connecticut Amendments to the 2015 International
Residential Code portion of the 2018 Connecticut State
Building Code.**

**The drawings are for illustration purposes only.
The written code text shall apply.**

Guidelines for Residential Swimming Pools, Spas and Hot Tubs

R326.6 Barrier requirements. The provisions of this section shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

R326.6.1 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa, shall be surrounded by a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48 inches (1219 mm) above grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above-ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).
2. Openings in the barrier shall not allow the passage of a 4-inch-diameter (102 mm) sphere.
3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions, except for normal construction tolerances and tooled masonry joints.
4. Where the barrier is composed of horizontal and vertical members, and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1 ¾ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 ¾ inches (44 mm) in width.
5. Where the barrier is composed of horizontal and vertical members, and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 ¾ inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a 2 1/4-inch (57 mm) square, unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than 1 ¾ inches (44 mm).

7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1 3/4 inches (44 mm).

8. Access gates shall comply with the requirements of Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool, and shall be self-closing and have a self-latching device. Gates, other than pedestrian access gates, shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:

8.1 The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate; and

8.2 The gate and barrier shall have no opening larger than 1/2 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

9. Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:

9.1 The pool shall be equipped with a powered safety cover in compliance with ASTM F1346;

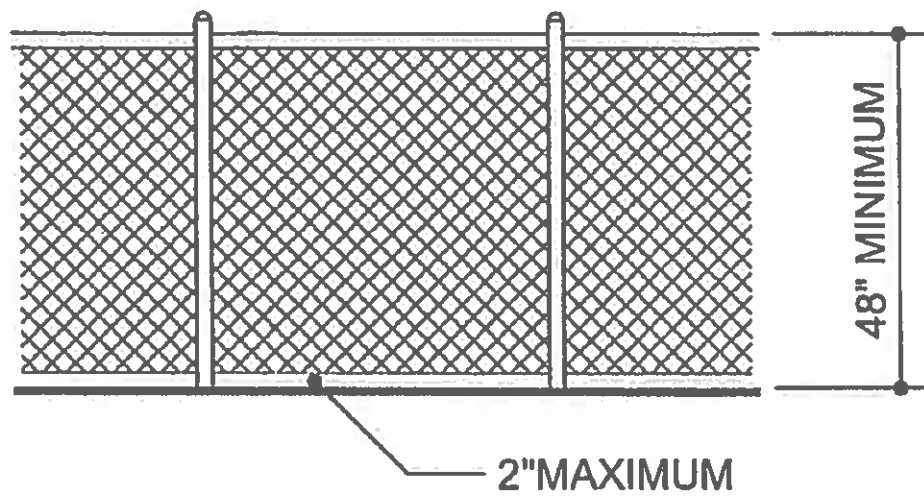
9.2 Doors with direct access to the pool through that wall shall be equipped with an alarm that produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed and labeled in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or

9.3 Other means of protection, such as self-closing doors with self-latching devices, which are approved by the governing body, shall be acceptable as long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described herein.

10. Where an above-ground or on-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, the ladder or steps shall be surrounded by a barrier that meets the requirements of Items 1 to 9, inclusive.

R326.6.2 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Item 9 of Section R326.6.1.

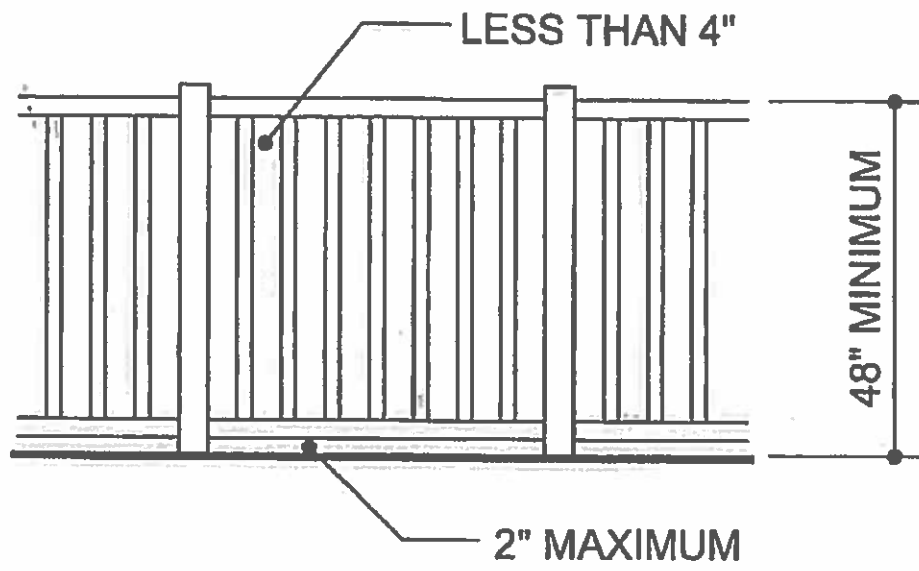
R326.6.3 Barrier perimeter clearance. The required barrier height shall exist around the entire perimeter of the barrier and for a distance of 3 feet (914 mm)



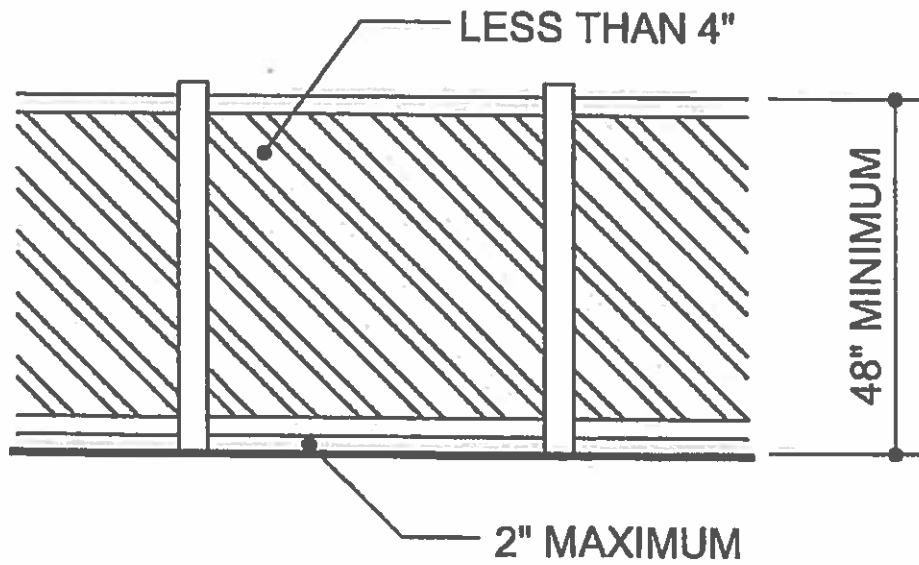
ELEVATION

OUTSIDE OF THE POOL ENCLOSURE

SECTION R326.6.1, ITEM 1

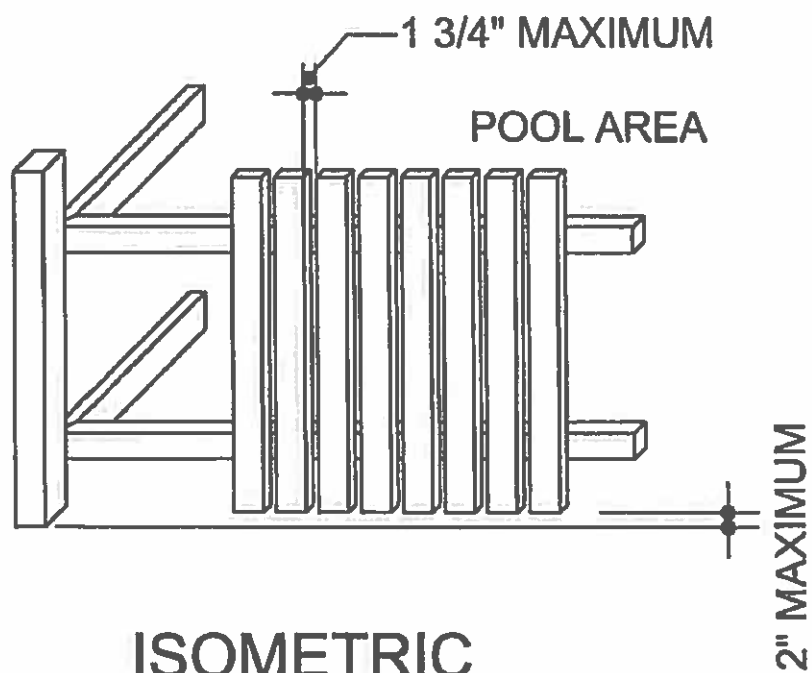
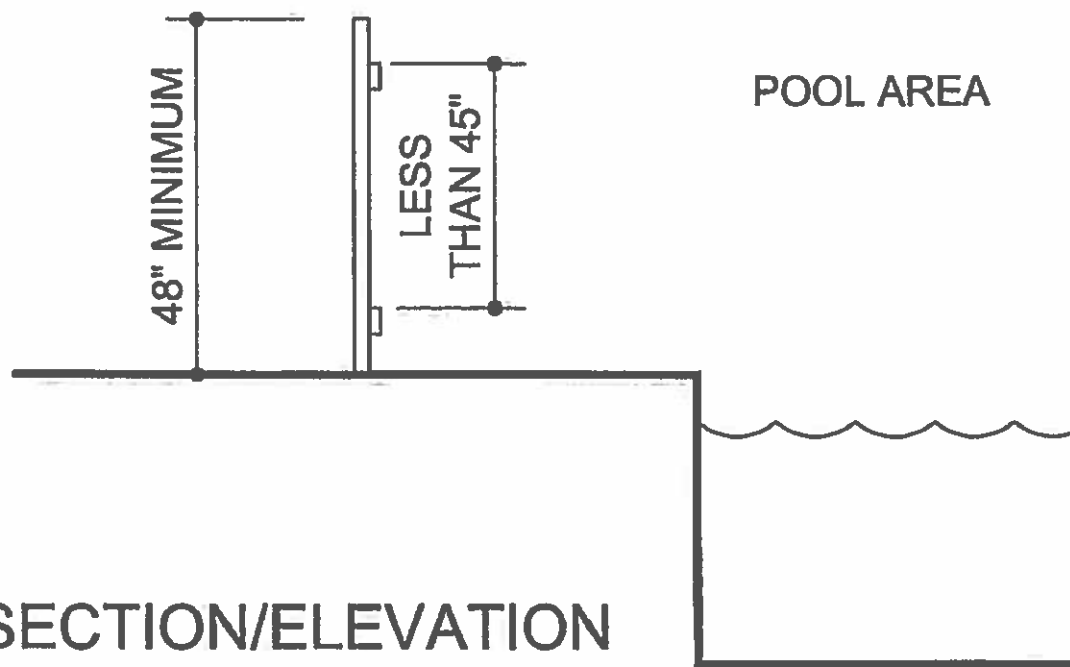


ELEVATION

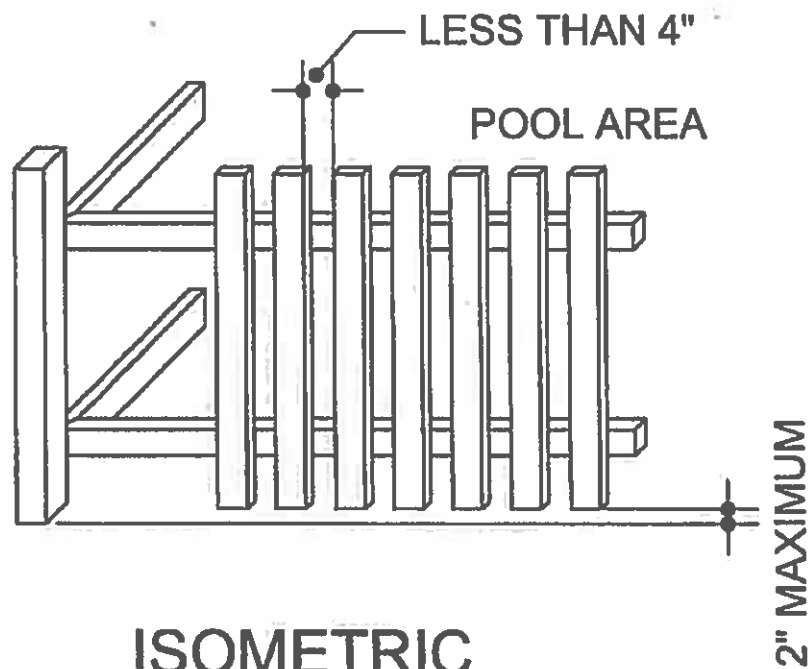
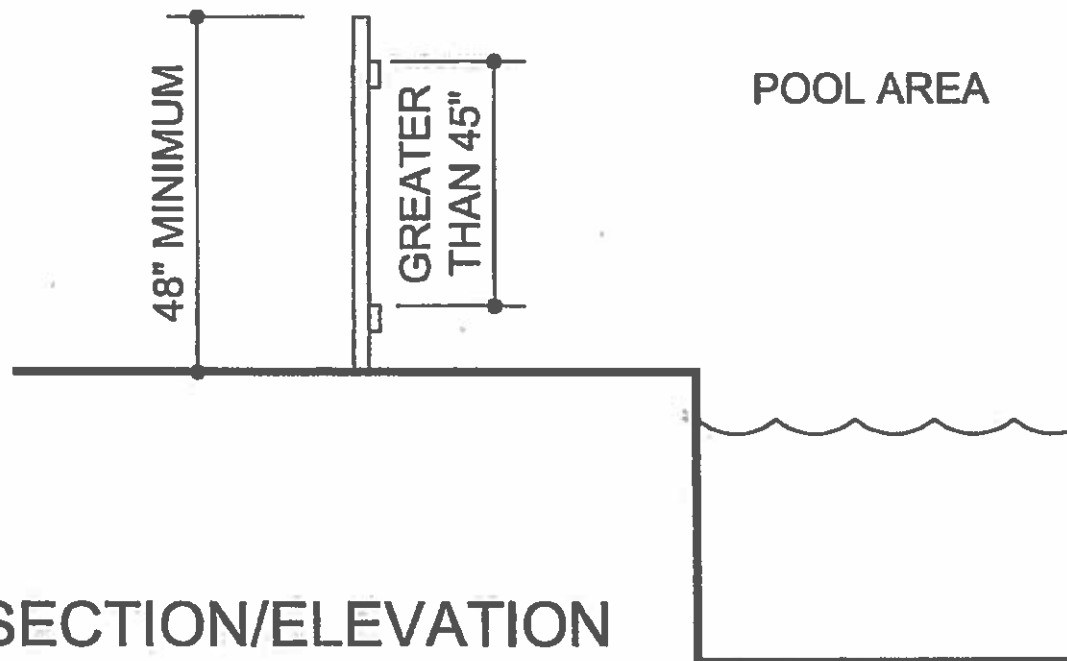


ELEVATION

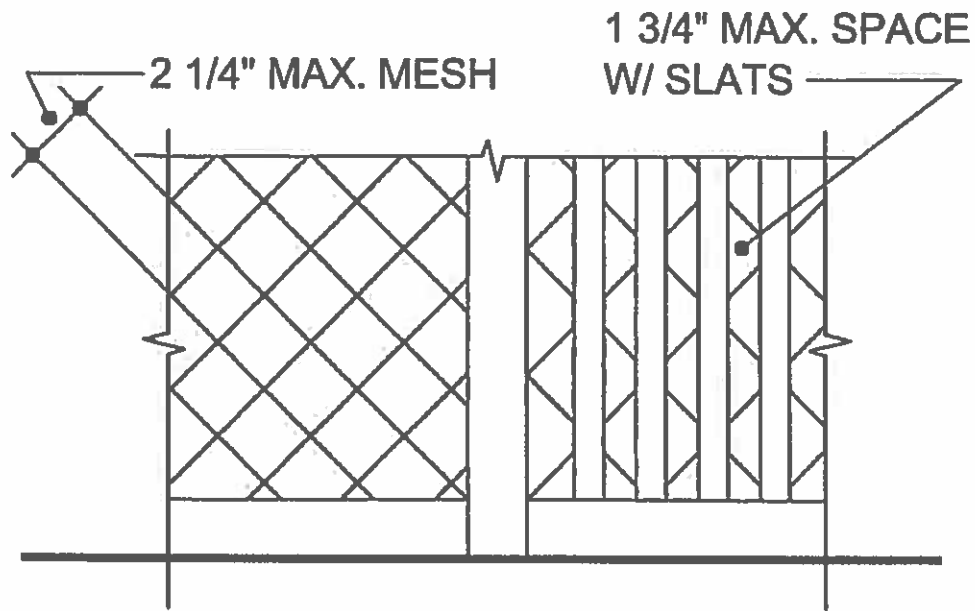
SECTION R326.6.1, ITEM 2



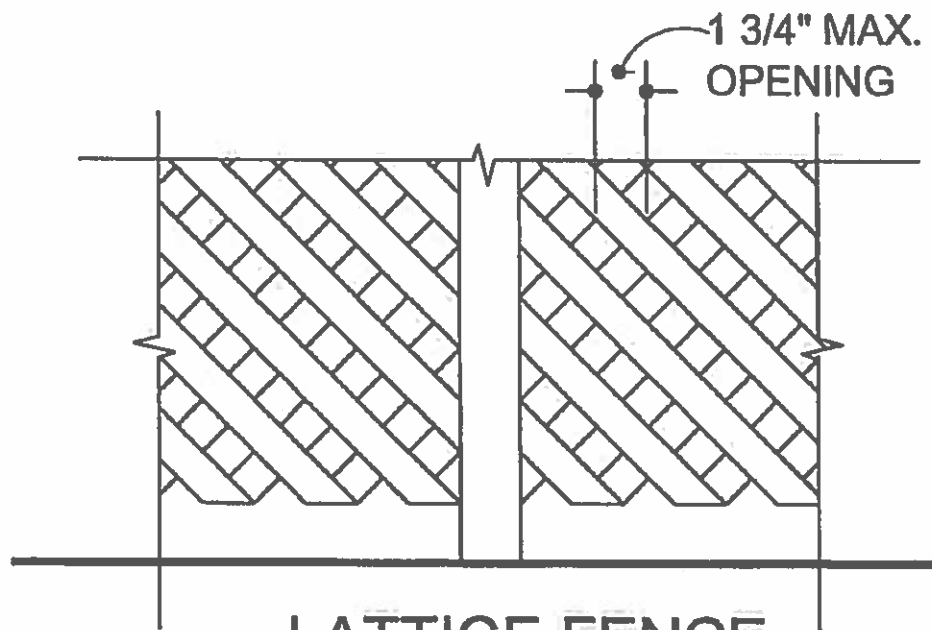
SECTION R326.6.1, ITEM 4



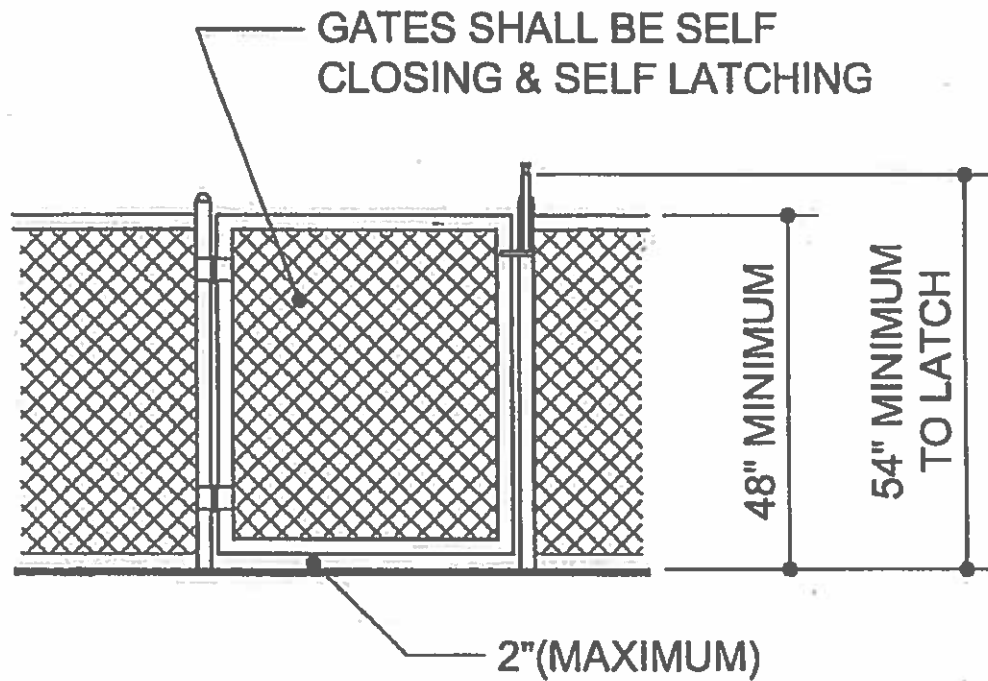
SECTION R326.6.1, ITEM 5



CHAIN LINK FENCE
SECTION R326.6.1, ITEM 6



LATTICE FENCE
SECTION R326.6.1, ITEM 7



ELEVATION

PEDESTRIAN ACCESS GATE

SECTION R326.6.1, ITEM 8

WIRING REQUIREMENTS FOR SWIMMING POOLS

2017 National Electrical Code

PERMANENTLY INSTALLED SWIMMING POOLS

National Electrical Code definition are those pools that are constructed in the ground or partially in the ground and all other pools capable of holding water with a depth greater than 42-inches.

Pool Pump Receptacle (Outlet) and Wiring Methods

1. For permanent pools, the pump motor receptacle shall be located between 6-feet to 10-feet from the inside pool wall and the receptacle must be a single twist-lock, GFCI (Ground Fault) protected outlet. Article 680.22(A)(2)
2. The outdoor pump receptacle must have a weatherproof cover that can be closed when the pump cord is plugged in. Article 406.9(B)(2)
3. The electrical circuit line for a permanently installed pool pump motor must go directly to a panel box and is to be isolated from all other receptacles. Article 100.12
4. The wire for the pump motor shall not be less than #12 AWG insulated copper and must be in conduit. Article 680.21(A)(1) and Article 680.11
5. In the interior of a one family dwelling Type NM cable may be used.
6. The cord on the pump must be 3-feet long maximum and a minimum of #12 AWG. Article 680.22(A)(3)

Conduit Depth:

Electrical PVC at least 18-inches deep. Table 300.5 (12-inches if all conductors are GFCI protected, rated 120 volts or less with maximum overcurrent protection of 20 amps.) Conductors used in conduit must be individual stranded wires. (ex. THWN, XHHN Etc. NO NM or UF cable in conduit)

Convenience Receptacle (outlet) and Wiring Methods

1. At least one(1) 15-20 amp convenience receptacle must be located no closer than 6-feet but no further than 20-feet from the outside of the pool wall. May be existing and/or wired with any approved wiring method. Article 680.22(A)(1)
2. Convenience receptacle shall be separate from the pool pump receptacle wiring. Article 110.12
3. Convenience receptacle must be GFCI (Ground Fault) protected. 680.22(A)(4)
4. Convenience receptacle shall have an in-use bubble cover where located outdoors. 406.9(B)(1)

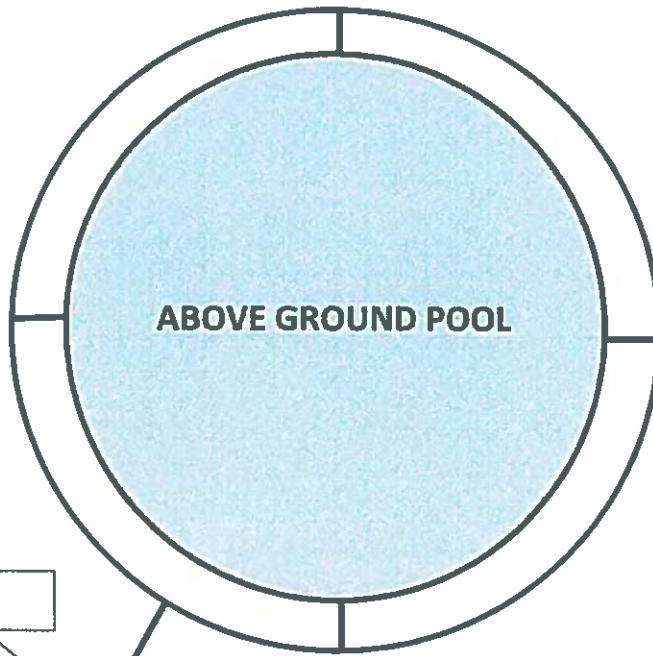
Bonding The Pool

1. All metal parts must be bonded together using a #8 (or larger) solid copper wire. 680.26(B)
2. Conductive pool shells must be bonded in a minimum of four (equal) points uniformly spaced around the pool. 680.26(B)(2)
3. Above ground pools must have a #8 (or larger) solid copper wire buried 4-inches to 6-inches below finished grade. This bond wire will be placed 18-inches to 24-inches from the pool wall, all the way around the pool. This equipotential bonding ring shall start and return/terminate at the pool pump. 680.26(B)(2)(b)
4. Bonding points or attachment must use listed non-corrosive lugs. 250.8
5. A minimum of nine (9) square inches of metal must be provided to bond the water. 680.26(C)

Other

1. All permanent and seasonal pools with a water depth greater than 24-inches as well as all outdoor located spas and hot tubs require building permits. Permanently installed pools require permanent electrical wiring and need to be inspected.
2. Pool alarms are required. (UL listed or tested)
3. Circulating equipment must be controlled by an energy saving timer.

Bonding lugs at 4 locations



**Ring of #8 solid copper wire
4-6 inches below grade
18-24 inches**

48 inches

Pool Pump

**#12 pool pump cord
(max 3 feet)**

- **Post 6 feet from pool**
- **Twist-lock receptacle for pump**
- **Convenience receptacle on post or within 20 feet of pool**

Trench 12-18 inches deep

**PVC conduit in trench
#12 minimum blk/wht/green THWN
wire or equivalent**

Time clock for pump